

US005469271A

United States Patent [19]

Hoshino et al.

[11] Patent Number:

5,469,271

[45] Date of Patent:

Nov. 21, 1995

[54] UNIFIED COMPACT VIDEO CAMERA AND VCR

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[21] Appl. No.: 222,314

[22] Filed: Apr. 1, 1994

Related U.S. Application Data

[63] Continuation of Ser. No. 527,374, May 23, 1990, abandoned.

[30]	Foreign Application Priority Data					
May 3 May 3	30, 1989 30, 1989 30, 1989 30, 1989	[JP] [JP] [JP] [JP]	Japan Japan	1-136355 1-136356 1-136357 1-136358		
[51]	Int Cl 6			H04N 5/247		

[52] **U.S. Cl.** **358/335**; 358/906; 358/909.1; 348/375

 [56] References Cited

U.S. PATENT DOCUMENTS

4,511,932	4/1985	Ushiro	358/227
4,550,343	10/1985	Nakatani	358/229
4,772,902	9/1988	Inoue et al	358/229
4,885,643	12/1989	Ichimura et al	358/335
4,959,729	9/1990	Fukuda et al	358/335

FOREIGN PATENT DOCUMENTS

0050677 2/1989 Japan.

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[57]

ABSTRACT

A unified compact video camera and video cassette recording and/or reproducing apparatus (VCR) has a video camera unit and a VCR unit which includes a cassette holder arranged in a common hollow body at opposite sides of its median plane, and a grip strap extends along the body at the outside of the cassette holder so that the opposite side of the body is available for the positioning thereat of various control switches for operating the video camera and VCR units.

18 Claims, 20 Drawing Sheets

